

# Phase Element Technology Cost Detail Report (without Markups)

**Folder:** Parker Landfill R04

## Project

**Name:** 170 GPM Parker Landfill  
**ID:** 170 GPM Parker Landfill  
**Location:** VERMONT STATE AVERAGE, VERMONT  
**Modifiers:**  
    **Material** 1.0001 (Modified)  
    **Labor** 0.7743 (Modified)  
    **Equipment** 1.0881 (Modified)  
**Category:** Groundwater Remediation  
    Label45  
**Report Option:** Fiscal Year

## Site

**Name:** Alternative 1  
**ID:** Parker Landfill  
**Type:** Groundwater  
**Description:** Groundwater Pump and Treat

## Phase Element

**Name:** GW Monitoring  
**Type:** Long Term Monitoring  
**Labor Rate Group:** System Labor Rate  
**Analysis Rate Group:** System Analysis Rate  
**Approach:** None  
**Start Date:** 2/1/2004

**Media/Waste Type:** Groundwater  
**Secondary Media/Waste Type:** N/A  
**Contaminant:** Volatile Organic Compounds (VOCs)  
**Secondary Contaminant:** None  
**Markup Template:** System Defaults  
**O&M Markup Template:** N/A

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:42:42 PM

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# Phase Element Technology Cost Detail Report (without Markups)

**Description:** 10 wells, quarterly for 5 yr, annually for years 6-30 for VOCs; 45 wells semi-annually for 30 yrs for TAL Metals and VOCs

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:42:42 PM

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## Phase Element Technology Cost Detail Report (without Markups)

**Technology:** Monitoring (12 - months only)

**Element:** Groundwater

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33020401	Disposable Materials per Sample	40.00	EA	7.67	0.00	0.00	\$306.86	
33020402	Decontamination Materials per Sample	40.00	EA	6.90	0.00	0.00	\$276.03	
33020561	Nylon Tubing, 1/4" Outside Diameter	4,025.00	LF	0.40	0.00	0.00	\$1,610.00	
33021509	Water Quality Parameter Testing Device	2.00	WK	219.02	0.00	0.00	\$438.04	
33029501	Water Analysis EPA 8260B	40.00	LS	181.50	0.00	0.00	\$7,260.00	
33230510	4" Submersible Pump Rental, Week	2.00	WK	220.94	0.00	0.00	\$441.87	
33231186	Well Development Equipment Rental (weekly)	2.00	WK	219.02	0.00	0.00	\$438.04	
<b>Total Element Cost</b>							<b>\$10,770.84</b>	

**Element:** General Monitoring

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33010104	Car or Van Mileage Charge	160.00	MI	0.34	0.00	0.00	\$54.99	
33220108	Project Scientist	140.00	HR	0.00	22.44	0.00	\$3,141.57	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:42:42 PM

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## Phase Element Technology Cost Detail Report (without Markups)

**Element:** General Monitoring

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220112	Field Technician	148.00	HR	0.00	14.98	0.00	\$2,216.46	
33220114	Word Processing/Clerical	20.00	HR	0.00	12.41	0.00	\$248.21	
33220115	Draftsman/CADD	20.00	HR	0.00	19.23	0.00	\$384.65	
<b>Total Element Cost</b>							<b>\$6,045.89</b>	
<b>Total 1st Year Technology Cost</b>							<b>\$16,816.73</b>	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:42:42 PM

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## Phase Element Technology Cost Detail Report (without Markups)

**Technology:** Monitoring (12 - months only)

**Element:** Groundwater

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33020401	Disposable Materials per Sample	10.00	EA	7.67	0.00	0.00	\$76.71	
33020402	Decontamination Materials per Sample	10.00	EA	6.90	0.00	0.00	\$69.01	
33020561	Nylon Tubing, 1/4" Outside Diameter	1,025.00	LF	0.40	0.00	0.00	\$410.00	
33021509	Water Quality Parameter Testing Device	1.00	WK	219.02	0.00	0.00	\$219.02	
33029501	Water Analysis EPA 8260B	10.00	LS	181.50	0.00	0.00	\$1,815.00	
33230509	4" Submersible Pump Rental, Day	2.00	DAY	73.65	0.00	0.00	\$147.29	
33231186	Well Development Equipment Rental (weekly)	1.00	WK	219.02	0.00	0.00	\$219.02	
<b>Total Element Cost</b>							<b>\$2,956.06</b>	

**Element:** General Monitoring

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33010104	Car or Van Mileage Charge	40.00	MI	0.34	0.00	0.00	\$13.75	
33220108	Project Scientist	35.00	HR	0.00	22.44	0.00	\$785.39	
33220112	Field Technician	37.00	HR	0.00	14.98	0.00	\$554.12	

Cost Database Date: 2003

Cost Type: User-Defined

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## Phase Element Technology Cost Detail Report (without Markups)

**Element:** General Monitoring

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220114	Word Processing/Clerical	5.00	HR	0.00	12.41	0.00	\$62.05	
33220115	Draftsman/CADD	5.00	HR	0.00	19.23	0.00	\$96.16	
Total Element Cost							<b>\$1,511.47</b>	
Total 1st Year Technology Cost							<b>\$4,467.53</b>	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:42:42 PM

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## Phase Element Technology Cost Detail Report (without Markups)

**Technology:** Monitoring (12 - months only)

**Element:** Groundwater

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33020401	Disposable Materials per Sample	90.00	EA	7.67	0.00	0.00	\$690.43	
33020402	Decontamination Materials per Sample	90.00	EA	6.90	0.00	0.00	\$621.06	
33020561	Nylon Tubing, 1/4" Outside Diameter	9,025.00	LF	0.40	0.00	0.00	\$3,610.00	
33021509	Water Quality Parameter Testing Device	4.00	WK	219.02	0.00	0.00	\$876.09	
33021620	TAL Metals (EPA 6010/7000s), Water, Water Analysis	90.00	EA	342.30	0.00	0.00	\$30,806.59	
33029501	Water Analysis EPA 8260B	90.00	LS	181.50	0.00	0.00	\$16,335.00	
33230510	4" Submersible Pump Rental, Week	3.00	WK	220.94	0.00	0.00	\$662.81	
33231186	Well Development Equipment Rental (weekly)	4.00	WK	219.02	0.00	0.00	\$876.09	
<b>Total Element Cost</b>							<b>\$54,478.06</b>	

Cost Database Date: 2003

Cost Type: User-Defined

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## Phase Element Technology Cost Detail Report (without Markups)

**Element:** General Monitoring

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33010104	Car or Van Mileage Charge	320.00	MI	0.34	0.00	0.00	\$109.98	
33220108	Project Scientist	315.00	HR	0.00	22.44	0.00	\$7,068.54	
33220112	Field Technician	301.00	HR	0.00	14.98	0.00	\$4,507.81	
33220114	Word Processing/Clerical	45.00	HR	0.00	12.41	0.00	\$558.47	
33220115	Draftsman/CADD	45.00	HR	0.00	19.23	0.00	\$865.47	
Total Element Cost							\$13,110.27	
Total 1st Year Technology Cost							\$67,588.32	
Total Phase Element Cost							\$88,872.58	

Cost Database Date: 2003

Cost Type: User-Defined

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# Phase Element Technology Cost Detail Report (without Markups)

**Folder:** Parker Landfill R04

## Project

**Name:** 170 GPM Parker Landfill  
**ID:** 170 GPM Parker Landfill  
**Location:** VERMONT STATE AVERAGE, VERMONT  
**Modifiers:**  
    **Material** 1.0001 (Modified)  
    **Labor** 0.7743 (Modified)  
    **Equipment** 1.0881 (Modified)  
**Category:** Groundwater Remediation  
                Label45  
**Report Option:** Fiscal Year

## Site

**Name:** Alternative 1  
**ID:** Parker Landfill  
**Type:** Groundwater  
**Description:** Groundwater Pump and Treat

## Phase Element

**Name:** 5 YR Review Year 05  
**Type:** Long Term Monitoring  
**Labor Rate Group:** System Labor Rate  
**Analysis Rate Group:** System Analysis Rate  
**Approach:** None  
**Start Date:** 7/1/2009

**Media/Waste Type:** Groundwater  
**Secondary Media/Waste Type:** N/A  
**Contaminant:** Volatile Organic Compounds (VOCs)  
**Secondary Contaminant:** None  
**Markup Template:** System Defaults  
**O&M Markup Template:** N/A

Cost Database Date: 2003

Cost Type: User-Defined

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# Phase Element Technology Cost Detail Report (without Markups)

**Technology:** Five-Year Review

**Element:** Document Review

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	17.00	HR	0.00	37.28	0.00	\$633.76	
33220105	Project Engineer	20.00	HR	0.00	27.60	0.00	\$552.01	
33220108	Project Scientist	16.00	HR	0.00	22.44	0.00	\$359.04	
33220109	Staff Scientist	30.00	HR	0.00	21.42	0.00	\$642.58	
Total Element Cost							\$2,187.38	

**Element:** Interviews

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	20.00	HR	0.00	37.28	0.00	\$745.60	
Total Element Cost							\$745.60	

**Element:** Site Inspection

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	12.00	HR	0.00	37.28	0.00	\$447.36	
33220105	Project Engineer	37.00	HR	0.00	27.60	0.00	\$1,021.21	

Cost Database Date: 2003

Cost Type: User-Defined

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## Phase Element Technology Cost Detail Report (without Markups)

Element: Site Inspection

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220108	Project Scientist	23.00	HR	0.00	22.44	0.00	\$516.12	
33220109	Staff Scientist	26.00	HR	0.00	21.42	0.00	\$556.90	
Total Element Cost							<b>\$2,541.59</b>	

Element: Report

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	19.00	HR	0.00	37.28	0.00	\$708.32	
33220105	Project Engineer	46.00	HR	0.00	27.60	0.00	\$1,269.61	
33220108	Project Scientist	41.00	HR	0.00	22.44	0.00	\$920.03	
33220109	Staff Scientist	75.00	HR	0.00	21.42	0.00	\$1,606.46	
Total Element Cost							<b>\$4,504.42</b>	

Element: Travel

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33010108	Sedan, Automobile, Rental	5.00	DAY	46.58	0.00	0.00	\$232.90	
33010202	Per Diem (per person)	10.00	DAY	109.80	0.00	0.00	\$1,098.00	
33041101	Airfare	2.00	LS	0.00	0.00	0.00	\$0.00	

Cost Database Date: 2003

Cost Type: User-Defined

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## **Phase Element Technology Cost Detail Report (without Markups)**

<b>Total Element Cost</b>	<b>\$1,330.90</b>
<b>Total 1st Year Technology Cost</b>	<b>\$11,309.88</b>
<b>Total Phase Element Cost</b>	<b>\$11,309.88</b>

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:06 PM

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# Phase Element Technology Cost Detail Report (without Markups)

**Folder:** Parker Landfill R04

## Project

**Name:** 170 GPM Parker Landfill  
**ID:** 170 GPM Parker Landfill  
**Location:** VERMONT STATE AVERAGE, VERMONT  
**Modifiers:**  
    **Material** 1.0001 (Modified)  
    **Labor** 0.7743 (Modified)  
    **Equipment** 1.0881 (Modified)  
**Category:** Groundwater Remediation  
    Label45  
**Report Option:** Fiscal Year

## Site

**Name:** Alternative 1  
**ID:** Parker Landfill  
**Type:** Groundwater  
**Description:** Groundwater Pump and Treat

## Phase Element

**Name:** 5 YR Review Year 10  
**Type:** Long Term Monitoring  
**Labor Rate Group:** System Labor Rate  
**Analysis Rate Group:** System Analysis Rate  
**Approach:** None  
**Start Date:** 7/1/2014

**Media/Waste Type:** Groundwater  
**Secondary Media/Waste Type:** N/A  
**Contaminant:** Volatile Organic Compounds (VOCs)  
**Secondary Contaminant:** None  
**Markup Template:** System Defaults  
**O&M Markup Template:** N/A

Cost Database Date: 2003

Cost Type: User-Defined

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# Phase Element Technology Cost Detail Report (without Markups)

**Technology:** Five-Year Review

**Element:** Document Review

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	17.00	HR	0.00	37.28	0.00	\$633.76	
33220105	Project Engineer	20.00	HR	0.00	27.60	0.00	\$552.01	
33220108	Project Scientist	16.00	HR	0.00	22.44	0.00	\$359.04	
33220109	Staff Scientist	30.00	HR	0.00	21.42	0.00	\$642.58	
Total Element Cost							\$2,187.38	

**Element:** Interviews

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	20.00	HR	0.00	37.28	0.00	\$745.60	
Total Element Cost							\$745.60	

**Element:** Site Inspection

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	12.00	HR	0.00	37.28	0.00	\$447.36	
33220105	Project Engineer	37.00	HR	0.00	27.60	0.00	\$1,021.21	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:18 PM

## Phase Element Technology Cost Detail Report (without Markups)

**Element:** Site Inspection

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220108	Project Scientist	23.00	HR	0.00	22.44	0.00	\$516.12	
33220109	Staff Scientist	26.00	HR	0.00	21.42	0.00	\$556.90	
<b>Total Element Cost</b>							<b>\$2,541.59</b>	

**Element:** Report

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	19.00	HR	0.00	37.28	0.00	\$708.32	
33220105	Project Engineer	46.00	HR	0.00	27.60	0.00	\$1,269.61	
33220108	Project Scientist	41.00	HR	0.00	22.44	0.00	\$920.03	
33220109	Staff Scientist	75.00	HR	0.00	21.42	0.00	\$1,606.46	
<b>Total Element Cost</b>							<b>\$4,504.42</b>	

**Element:** Travel

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33010108	Sedan, Automobile, Rental	5.00	DAY	46.58	0.00	0.00	\$232.90	
33010202	Per Diem (per person)	10.00	DAY	109.80	0.00	0.00	\$1,098.00	
33041101	Airfare	2.00	LS	0.00	0.00	0.00	\$0.00	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:18 PM

## **Phase Element Technology Cost Detail Report (without Markups)**

Total Element Cost	<b>\$1,330.90</b>
Total 1st Year Technology Cost	<b>\$11,309.88</b>
Total Phase Element Cost	<b>\$11,309.88</b>

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:18 PM

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# Phase Element Technology Cost Detail Report (without Markups)

**Folder:** Parker Landfill R04

## Project

**Name:** 170 GPM Parker Landfill  
**ID:** 170 GPM Parker Landfill  
**Location:** VERMONT STATE AVERAGE, VERMONT  
**Modifiers:**  
    **Material** 1.0001 (Modified)  
    **Labor** 0.7743 (Modified)  
    **Equipment** 1.0881 (Modified)  
**Category:** Groundwater Remediation  
                Label45  
**Report Option:** Fiscal Year

## Site

**Name:** Alternative 1  
**ID:** Parker Landfill  
**Type:** Groundwater  
**Description:** Groundwater Pump and Treat

## Phase Element

**Name:** 5 YR Review Year 15  
**Type:** Long Term Monitoring  
**Labor Rate Group:** System Labor Rate  
**Analysis Rate Group:** System Analysis Rate  
**Approach:** None  
**Start Date:** 7/1/2019

**Media/Waste Type:** Groundwater  
**Secondary Media/Waste Type:** N/A  
**Contaminant:** Volatile Organic Compounds (VOCs)  
**Secondary Contaminant:** None  
**Markup Template:** System Defaults  
**O&M Markup Template:** N/A

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:29 PM

# Phase Element Technology Cost Detail Report (without Markups)

**Technology:** Five-Year Review

**Element:** Document Review

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	17.00	HR	0.00	37.28	0.00	\$633.76	
33220105	Project Engineer	20.00	HR	0.00	27.60	0.00	\$552.01	
33220108	Project Scientist	16.00	HR	0.00	22.44	0.00	\$359.04	
33220109	Staff Scientist	30.00	HR	0.00	21.42	0.00	\$642.58	
<b>Total Element Cost</b>							<b>\$2,187.38</b>	

**Element:** Interviews

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	20.00	HR	0.00	37.28	0.00	\$745.60	
<b>Total Element Cost</b>							<b>\$745.60</b>	

**Element:** Site Inspection

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	12.00	HR	0.00	37.28	0.00	\$447.36	
33220105	Project Engineer	37.00	HR	0.00	27.60	0.00	\$1,021.21	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:29 PM

## Phase Element Technology Cost Detail Report (without Markups)

**Element:** Site Inspection

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220108	Project Scientist	23.00	HR	0.00	22.44	0.00	\$516.12	
33220109	Staff Scientist	26.00	HR	0.00	21.42	0.00	\$556.90	
Total Element Cost							<b>\$2,541.59</b>	

**Element:** Report

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	19.00	HR	0.00	37.28	0.00	\$708.32	
33220105	Project Engineer	46.00	HR	0.00	27.60	0.00	\$1,269.61	
33220108	Project Scientist	41.00	HR	0.00	22.44	0.00	\$920.03	
33220109	Staff Scientist	75.00	HR	0.00	21.42	0.00	\$1,606.46	
Total Element Cost							<b>\$4,504.42</b>	

**Element:** Travel

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33010108	Sedan, Automobile, Rental	5.00	DAY	46.58	0.00	0.00	\$232.90	
33010202	Per Diem (per person)	10.00	DAY	109.80	0.00	0.00	\$1,098.00	
33041101	Airfare	2.00	LS	0.00	0.00	0.00	\$0.00	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:29 PM

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## **Phase Element Technology Cost Detail Report (without Markups)**

Total Element Cost	<b>\$1,330.90</b>
Total 1st Year Technology Cost	<b>\$11,309.88</b>
Total Phase Element Cost	<b>\$11,309.88</b>

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:29 PM

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# Phase Element Technology Cost Detail Report (without Markups)

**Folder:** Parker Landfill R04

## Project

**Name:** 170 GPM Parker Landfill  
**ID:** 170 GPM Parker Landfill  
**Location:** VERMONT STATE AVERAGE, VERMONT  
**Modifiers:**  
    **Material** 1.0001 (Modified)  
    **Labor** 0.7743 (Modified)  
    **Equipment** 1.0881 (Modified)  
**Category:** Groundwater Remediation  
                Label45  
**Report Option:** Fiscal Year

## Site

**Name:** Alternative 1  
**ID:** Parker Landfill  
**Type:** Groundwater  
**Description:** Groundwater Pump and Treat

## Phase Element

**Name:** 5 YR Review Year 20  
**Type:** Long Term Monitoring  
**Labor Rate Group:** System Labor Rate  
**Analysis Rate Group:** System Analysis Rate  
**Approach:** None  
**Start Date:** 7/1/2024

**Media/Waste Type:** Groundwater  
**Secondary Media/Waste Type:** N/A  
**Contaminant:** Volatile Organic Compounds (VOCs)  
**Secondary Contaminant:** None  
**Markup Template:** System Defaults  
**O&M Markup Template:** N/A

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:42 PM

# Phase Element Technology Cost Detail Report (without Markups)

**Technology:** Five-Year Review

**Element:** Document Review

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	17.00	HR	0.00	37.28	0.00	\$633.76	
33220105	Project Engineer	20.00	HR	0.00	27.60	0.00	\$552.01	
33220108	Project Scientist	16.00	HR	0.00	22.44	0.00	\$359.04	
33220109	Staff Scientist	30.00	HR	0.00	21.42	0.00	\$642.58	
Total Element Cost							\$2,187.38	

**Element:** Interviews

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	20.00	HR	0.00	37.28	0.00	\$745.60	
Total Element Cost							\$745.60	

**Element:** Site Inspection

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	12.00	HR	0.00	37.28	0.00	\$447.36	
33220105	Project Engineer	37.00	HR	0.00	27.60	0.00	\$1,021.21	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:42 PM

## Phase Element Technology Cost Detail Report (without Markups)

**Element:** Site Inspection

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220108	Project Scientist	23.00	HR	0.00	22.44	0.00	\$516.12	
33220109	Staff Scientist	26.00	HR	0.00	21.42	0.00	\$556.90	
Total Element Cost							<b>\$2,541.59</b>	

**Element:** Report

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	19.00	HR	0.00	37.28	0.00	\$708.32	
33220105	Project Engineer	46.00	HR	0.00	27.60	0.00	\$1,269.61	
33220108	Project Scientist	41.00	HR	0.00	22.44	0.00	\$920.03	
33220109	Staff Scientist	75.00	HR	0.00	21.42	0.00	\$1,606.46	
Total Element Cost							<b>\$4,504.42</b>	

**Element:** Travel

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33010108	Sedan, Automobile, Rental	5.00	DAY	46.58	0.00	0.00	\$232.90	
33010202	Per Diem (per person)	10.00	DAY	109.80	0.00	0.00	\$1,098.00	
33041101	Airfare	2.00	LS	0.00	0.00	0.00	\$0.00	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:42 PM

## **Phase Element Technology Cost Detail Report (without Markups)**

Total Element Cost	<b>\$1,330.90</b>
Total 1st Year Technology Cost	<b>\$11,309.88</b>
Total Phase Element Cost	<b>\$11,309.88</b>

Cost Database Date: 2003

Cost Type: User-Defined

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# Phase Element Technology Cost Detail Report (without Markups)

**Folder:** Parker Landfill R04

## Project

**Name:** 170 GPM Parker Landfill  
**ID:** 170 GPM Parker Landfill  
**Location:** VERMONT STATE AVERAGE, VERMONT  
**Modifiers:**  
    **Material** 1.0001 (Modified)  
    **Labor** 0.7743 (Modified)  
    **Equipment** 1.0881 (Modified)  
**Category:** Groundwater Remediation  
                Label45  
**Report Option:** Fiscal Year

## Site

**Name:** Alternative 1  
**ID:** Parker Landfill  
**Type:** Groundwater  
**Description:** Groundwater Pump and Treat

## Phase Element

**Name:** 5 YR Review Year 25  
**Type:** Long Term Monitoring  
**Labor Rate Group:** System Labor Rate  
**Analysis Rate Group:** System Analysis Rate  
**Approach:** None  
**Start Date:** 7/1/2029

**Media/Waste Type:** Groundwater  
**Secondary Media/Waste Type:** N/A  
**Contaminant:** Volatile Organic Compounds (VOCs)  
**Secondary Contaminant:** None  
**Markup Template:** System Defaults  
**O&M Markup Template:** N/A

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:57 PM

# Phase Element Technology Cost Detail Report (without Markups)

**Technology:** Five-Year Review

**Element:** Document Review

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	17.00	HR	0.00	37.28	0.00	\$633.76	
33220105	Project Engineer	20.00	HR	0.00	27.60	0.00	\$552.01	
33220108	Project Scientist	16.00	HR	0.00	22.44	0.00	\$359.04	
33220109	Staff Scientist	30.00	HR	0.00	21.42	0.00	\$642.58	
Total Element Cost							\$2,187.38	

**Element:** Interviews

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	20.00	HR	0.00	37.28	0.00	\$745.60	
Total Element Cost							\$745.60	

**Element:** Site Inspection

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	12.00	HR	0.00	37.28	0.00	\$447.36	
33220105	Project Engineer	37.00	HR	0.00	27.60	0.00	\$1,021.21	

Cost Database Date: 2003

Cost Type: User-Defined

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## Phase Element Technology Cost Detail Report (without Markups)

Element: Site Inspection

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220108	Project Scientist	23.00	HR	0.00	22.44	0.00	\$516.12	
33220109	Staff Scientist	26.00	HR	0.00	21.42	0.00	\$556.90	
Total Element Cost							<b>\$2,541.59</b>	

Element: Report

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	19.00	HR	0.00	37.28	0.00	\$708.32	
33220105	Project Engineer	46.00	HR	0.00	27.60	0.00	\$1,269.61	
33220108	Project Scientist	41.00	HR	0.00	22.44	0.00	\$920.03	
33220109	Staff Scientist	75.00	HR	0.00	21.42	0.00	\$1,606.46	
Total Element Cost							<b>\$4,504.42</b>	

Element: Travel

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33010108	Sedan, Automobile, Rental	5.00	DAY	46.58	0.00	0.00	\$232.90	
33010202	Per Diem (per person)	10.00	DAY	109.80	0.00	0.00	\$1,098.00	
33041101	Airfare	2.00	LS	0.00	0.00	0.00	\$0.00	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:57 PM

## **Phase Element Technology Cost Detail Report (without Markups)**

Total Element Cost	<b>\$1,330.90</b>
Total 1st Year Technology Cost	<b>\$11,309.88</b>
Total Phase Element Cost	<b>\$11,309.88</b>

Cost Database Date: 2003

Cost Type: User-Defined

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# Phase Element Technology Cost Detail Report (without Markups)

**Folder:** Parker Landfill R04

## Project

**Name:** 170 GPM Parker Landfill  
**ID:** 170 GPM Parker Landfill  
**Location:** VERMONT STATE AVERAGE, VERMONT  
**Modifiers:**  
    **Material** 1.0001 (Modified)  
    **Labor** 0.7743 (Modified)  
    **Equipment** 1.0881 (Modified)  
**Category:** Groundwater Remediation  
    Label45  
**Report Option:** Fiscal Year

## Site

**Name:** Alternative 1  
**ID:** Parker Landfill  
**Type:** Groundwater  
**Description:** Groundwater Pump and Treat

## Phase Element

**Name:** 5 YR Review Year 30  
**Type:** Long Term Monitoring  
**Labor Rate Group:** System Labor Rate  
**Analysis Rate Group:** System Analysis Rate  
**Approach:** None  
**Start Date:** 7/1/2034

**Media/Waste Type:** Groundwater  
**Secondary Media/Waste Type:** N/A  
**Contaminant:** Volatile Organic Compounds (VOCs)  
**Secondary Contaminant:** None  
**Markup Template:** System Defaults  
**O&M Markup Template:** N/A

Cost Database Date: 2003

Cost Type: User-Defined

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# Phase Element Technology Cost Detail Report (without Markups)

**Technology:** Five-Year Review

**Element:** Document Review

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	17.00	HR	0.00	37.28	0.00	\$633.76	
33220105	Project Engineer	20.00	HR	0.00	27.60	0.00	\$552.01	
33220108	Project Scientist	16.00	HR	0.00	22.44	0.00	\$359.04	
33220109	Staff Scientist	30.00	HR	0.00	21.42	0.00	\$642.58	
Total Element Cost							\$2,187.38	

**Element:** Interviews

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	20.00	HR	0.00	37.28	0.00	\$745.60	
Total Element Cost							\$745.60	

**Element:** Site Inspection

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	12.00	HR	0.00	37.28	0.00	\$447.36	
33220105	Project Engineer	37.00	HR	0.00	27.60	0.00	\$1,021.21	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:44:08 PM

## Phase Element Technology Cost Detail Report (without Markups)

Element: Site Inspection

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220108	Project Scientist	23.00	HR	0.00	22.44	0.00	\$516.12	
33220109	Staff Scientist	26.00	HR	0.00	21.42	0.00	\$556.90	
Total Element Cost							<b>\$2,541.59</b>	

Element: Report

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220102	Project Manager	19.00	HR	0.00	37.28	0.00	\$708.32	
33220105	Project Engineer	46.00	HR	0.00	27.60	0.00	\$1,269.61	
33220108	Project Scientist	41.00	HR	0.00	22.44	0.00	\$920.03	
33220109	Staff Scientist	75.00	HR	0.00	21.42	0.00	\$1,606.46	
Total Element Cost							<b>\$4,504.42</b>	

Element: Travel

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33010108	Sedan, Automobile, Rental	5.00	DAY	46.58	0.00	0.00	\$232.90	
33010202	Per Diem (per person)	10.00	DAY	109.80	0.00	0.00	\$1,098.00	
33041101	Airfare	2.00	LS	0.00	0.00	0.00	\$0.00	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:44:08 PM

## **Phase Element Technology Cost Detail Report (without Markups)**

<b>Total Element Cost</b>	<b>\$1,330.90</b>
<b>Total 1st Year Technology Cost</b>	<b>\$11,309.88</b>
<b>Total Phase Element Cost</b>	<b>\$11,309.88</b>

Cost Database Date: 2003

Cost Type: User-Defined

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# Phase Element Technology Cost Detail Report (without Markups)

**Folder:** Parker Landfill R04

## Project

**Name:** 170 GPM Parker Landfill

**ID:** 170 GPM Parker Landfill

**Location:** VERMONT STATE AVERAGE, VERMONT

**Modifiers:**     **Material** 1.0001     (Modified)

**Labor** 0.7743     (Modified)

**Equipment** 1.0881     (Modified)

**Category:** Groundwater Remediation  
                  Label45

**Report Option:** Fiscal Year

## Site

**Name:** Alternative 1

**ID:** Parker Landfill

**Type:** Groundwater

**Description:** Groundwater Pump and Treat

## Phase Element

**Name:** Site Closeout

**Type:** Site Close-out

**Labor Rate Group:** System Labor Rate

**Analysis Rate Group:** System Analysis Rate

**Approach:** None

**Start Date:** 8/1/2034

**Media/Waste Type:** Groundwater

**Secondary Media/Waste Type:** N/A

**Contaminant:** Volatile Organic Compounds  
(VOCs)

**Secondary Contaminant:** None

**Markup Template:** System Defaults

**O&M Markup Template:** N/A

Cost Database Date: 2003

Cost Type: User-Defined

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## Phase Element Technology Cost Detail Report (without Markups)

**Technology:** Site Close-Out Documentation

**Element:** Meetings

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220101	Senior Project Manager	4.00	HR	0.00	44.50	0.00	\$178.00	
33220102	Project Manager	80.00	HR	0.00	37.28	0.00	\$2,982.38	
33220106	Staff Engineer	60.00	HR	0.00	21.99	0.00	\$1,319.57	
33220114	Word Processing/Clerical	24.00	HR	0.00	12.41	0.00	\$297.85	
33220115	Draftsman/CADD	8.00	HR	0.00	19.23	0.00	\$153.86	
<b>Total Element Cost</b>							<b>\$4,931.67</b>	

**Element:** Work Plans & Reports

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33220101	Senior Project Manager	60.00	HR	0.00	44.50	0.00	\$2,670.04	
33220102	Project Manager	300.00	HR	0.00	37.28	0.00	\$11,183.94	
33220104	Senior Staff Engineer	300.00	HR	0.00	37.21	0.00	\$11,163.54	
33220109	Staff Scientist	100.00	HR	0.00	21.42	0.00	\$2,141.94	
33220114	Word Processing/Clerical	166.00	HR	0.00	12.41	0.00	\$2,060.13	
33220115	Draftsman/CADD	80.00	HR	0.00	19.23	0.00	\$1,538.62	
<b>Total Element Cost</b>							<b>\$30,758.20</b>	

Cost Database Date: 2003

Cost Type: User-Defined

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## Phase Element Technology Cost Detail Report (without Markups)

**Element:** Abandon wells

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33010107	Van or Pickup Rental	52.00	DAY	35.00	0.00	0.00	\$1,820.18	
33010202	Per Diem (per person)	104.00	DAY	109.80	0.00	0.00	\$11,419.20	
33220101	Senior Project Manager	2.00	HR	0.00	44.50	0.00	\$89.00	
33220102	Project Manager	204.00	HR	0.00	37.28	0.00	\$7,605.08	
33220106	Staff Engineer	200.00	HR	0.00	21.99	0.00	\$4,398.56	
33220109	Staff Scientist	200.00	HR	0.00	21.42	0.00	\$4,283.88	
33220114	Word Processing/Clerical	4.00	HR	0.00	12.41	0.00	\$49.64	
<b>Total Element Cost</b>							<b>\$29,665.54</b>	

**Element:** Documents

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220101	Senior Project Manager	3.00	HR	0.00	44.50	0.00	\$133.50	
33220102	Project Manager	60.00	HR	0.00	37.28	0.00	\$2,236.79	
33220104	Senior Staff Engineer	60.00	HR	0.00	37.21	0.00	\$2,232.71	
33220106	Staff Engineer	150.00	HR	0.00	21.99	0.00	\$3,298.92	
33220114	Word Processing/Clerical	60.00	HR	0.00	12.41	0.00	\$744.62	
33220115	Draftsman/CADD	40.00	HR	0.00	19.23	0.00	\$769.31	

Cost Database Date: 2003

Cost Type: User-Defined

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## Phase Element Technology Cost Detail Report (without Markups)

Element: Documents

Assembly	Description	Quantity	Unit of Measure	Material Unit Cost	Labor Unit Cost	Equipment Unit Cost	Extended Cost	Cost Override
33440102	Standard Record Storage Carton (Month)	840.00	MO	0.00	0.36	0.00	\$302.06	
33440105	Standard Storage Carton	10.00	EA	2.32	1.94	0.00	\$42.61	
33440113	Pickup Boxes (Per Box)	10.00	EA	0.00	1.94	0.00	\$19.44	
Total Element Cost							\$9,779.96	
Total 1st Year Technology Cost							\$75,135.36	
Total Phase Element Cost							\$75,135.36	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:42:54 PM

# Residual Waste Management Summary Report

**Folder:** Parker Landfill R05

## Project

**Name:** 170 GPM Parker Landfill  
**ID:** 170 GPM Parker Landfill  
**Location:** VERMONT STATE AVERAGE, VERMONT  
**Modifiers:**     **Material** 1.0001     (Modified)  
                  **Labor** 0.7743     (Modified)  
                  **Equipment** 1.0881     (Modified)  
**Category:** Groundwater Remediation  
                  Label45  
**Report Option:** Fiscal Year

## Site

**Name:** Alternative 1  
**ID:** Parker Landfill  
**Type:** Groundwater  
**Description:** Groundwater Pump and Treat

## Phase Element

**Name:** Pump and Treat  
**Type:** Remedial Action  
**Labor Rate Group:** System Labor Rate  
**Analysis Rate Group:** System Analysis Rate  
**Approach:** Ex Situ  
**Media/Waste Type:** Groundwater  
**Secondary Media/Waste** N/A  
**Contaminant:** Volatile Organic Compounds (VOCs)  
**Secondary Contaminant:** None  
**Markup Template:** System Defaults  
**O&M Markup Template:** System Defaults

Technology	Seq. #	Residual Waste Generated	Value	Units
Groundwater Monitoring Well	1	Drill Cuttings	2.48	CY
Groundwater Extraction Wells	1	Drill Cuttings	12	Drums
		Drill Cuttings	12	Drums
Groundwater Monitoring Well	1	Drill Cuttings	2.48	CY